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IEEE JNL IEEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEEE Conference Proceeding

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### 1 [SilkRoute: A framework for publishing relational data in XML](#)

 Mary Fernández, Yana Kadiyska, Dan Suciu, Atsuyuki Morishima, Wang-Chiew Tan  
 December 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(687.91 KB\)](#)

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XML is the "lingua franca" for data exchange between interenterprise applications. In this work, we describe SilkRoute, a framework for publishing relational data in XML. In SilkRoute, relational data is published in three steps: the relational tables are presented to the database administrator in a canonical XML view; the database administrator defines in the XQuery query language a public, virtual XML view over the canonical XML view; and an application formulates an XQuery query over the publ ...

**Keywords:** XML, XML storage systems, XQuery

### 2 [An XML query engine for network-bound data](#)

 Zachary G. Ives, A. Y. Halevy, D. S. Weld  
 December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

 Full text available: [pdf\(351.86 KB\)](#)

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XML has become the lingua franca for data exchange and integration across administrative and enterprise boundaries. Nearly all data providers are adding XML import or export capabilities, and standard XML Schemas and DTDs are being promoted for all types of data sharing. The ubiquity of XML has removed one of the major obstacles to integrating data from widely disparate sources - namely, the heterogeneity of data formats. However, general-purpose integration of data across the wide are a also re ...

**Keywords:** Data integration, Data streams, Query processing, Web and databases, XML

### 3 [Query Language for Semantic Web: Translating XSLT programs to Efficient SQL queries](#)

 Sushant Jain, Ratul Mahajan, Dan Suciu  
 May 2002 **Proceedings of the 11th international conference on World Wide Web**

**Publisher:** ACM PressFull text available:  [pdf\(171.64 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present an algorithm for translating XSLT programs into SQL. Our context is that of virtual XML publishing, in which a single XML view is defined from a relational database, and subsequently queried with XSLT programs. Each XSLT program is translated into a single SQL query and run entirely in the database engine. Our translation works for a large fragment of XSLT, which we define, that includes descendant/ancestor axis, recursive templates, modes, parameters, and aggregates. We put considera ...

**Keywords:** SQL, XML, XSLT, query optimization, translation, virtual view4 XML data modeling and storage: *XVerter*: querying XML data with OR-DBMS 

Humberto Vieira, Gabriela Ruberg, Marta Mattoso

November 2003 **Proceedings of the 5th ACM international workshop on Web information and data management****Publisher:** ACM PressFull text available:  [pdf\(277.96 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Storage techniques and queries over XML databases are being widely studied. Most works store XML documents in traditional DBMSs in order to take advantage of a well established technology and also to store both structured data and XML data within a single system. This work proposes a translation mechanism to execute queries expressed on XQuery on top of XML documents that are stored in an object DBMS using the DOM implementation in disk. Rules for automatic translation from XQuery to SQL3 are pr ...

**Keywords:** DOM, SQL3, XML, XQuery, XSLT, object DBMS5 Exploring XML for data exchange in the context of an undergraduate database curriculum 


Suzanne W. Dietrich, Susan D. Urban, Hua Ma, Yang Xiao, Shama Patel

February 2005 **ACM SIGCSE Bulletin , Proceedings of the 36th SIGCSE technical symposium on Computer science education SIGCSE '05**, Volume 37 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(225.67 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The relationship between XML and database management systems has become an important topic for coverage at the undergraduate level. This paper presents an approach to teaching the use of XML through the study of data exchange. After a brief review of XML, the paper provides a tutorial on the different features that are provided in major relational database products for the import and export of XML, providing a discussion of how these features can be used as implementation exercises for students. ...

**Keywords:** XML, data exchange, object-oriented databases, object-relational databases, relational databases, undergraduate database curriculum6 Document Databases: The extended XQL for querying and updating large XML databases 

Raymond K. Wong

November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering****Publisher:** ACM PressFull text available:  [pdf\(117.62 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XQL has been argued as just a model for asking for specific sets of elements with very limited query capability. This paper proposes several extensions of XQL to address the issues. The extensions include full-text indexed search, path variables, joins, session-based navigations, and updates. Effort has been spent to preserve the conciseness of the language syntax. Its corresponding query processor with optimization mechanism has been prototyped and available online. Finally, implementation issue ...

7 Posters: XML data mediator integrated solution for xml roundtrip from xml to relational



Nianjun Zhou, George Mihaila, Dikran Meliksetian

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

**Publisher:** ACM Press

Full text available: pdf(140.51 KB)

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This paper presents a system for efficient data transformations between XML and relational databases, called XML Data Mediator (XDM). XDM enables the transformation by externalizing the specification of the mapping in a script and using an efficient run-time engine that automates the conversion task. The runtime engine is independent from the mapping script. A parser converts a mapping script into an internal conversion object. For the mapping from relational to XML, we use a tagging tree as a c ...

**Keywords:** RDBMS, XML, XSL, relational database, shredding

8 The BEA streaming XQuery processor

Daniela Florescu, Chris Hillery, Donald Kossmann, Paul Lucas, Fabio Riccardi, Till Westmann, J. Carey, Arvind Sundararajan

September 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 13 Issue 3

**Publisher:** Springer-Verlag New York, Inc.

Full text available: pdf(328.94 KB)

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This paper describes the design, implementation, and performance characteristics of a commercial XQuery processing engine, the BEA streaming XQuery processor. This XQuery engine was designed to provide high performance for message-processing applications, i.e., for transforming XML data streams. The engine is a central component of the 8.1 release of BEA's WebLogic Integration (WLI) product. The BEA XQuery engine is fully compliant with the August 2002 draft of the W3C XML Query Language ...

9 A new approach to protein structure and function analysis using semi-structured databases

William M. Shui, Raymond K. Wong, Stephen C. Graham, Lawrence K. Lee, W. Bret Church

January 2003 **Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19 CRPITS '03**

**Publisher:** Australian Computer Society, Inc.

Full text available: pdf(144.54 KB)

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The development of high-throughput genome sequencing and protein structure determination techniques have provided researchers with a wealth of biological data. Integrated analysis of such data is difficult due to the disparate nature of the repositories used to store this biological data and of the software used for its analysis. This paper presents a framework based upon the use of semi-structured database management systems that would provide an integrated interface for the collection, storage ...

10 Hypermedia and Graphics 2: Authoring transformations by direct manipulation for adaptable multimedia presentations



Lionel Villard

November 2001

**Proceedings of the 2001 ACM Symposium on Document engineering**

**Publisher:** ACM Press

Full text available: pdf(3.00 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present a method for authoring generic and adaptable multimedia presentations. This method relies on document transformations. For the currently available tools, designing the XML content and the transformation sheets is a tedious and error prone experience. We propose a framework based on an incremental transformation process. Incremental transformation processors represent a better alternative to help in the design of both the content and the transformation sheets. We believe ...

**Keywords:** XML, XSLT, authoring tools, document model, incremental transformations, multimedia

11 Efficient evaluation of XML middle-ware queries



Mary Fernandez, Atsuyuki Morishima, Dan Suciu

May 2001

**ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01**, Volume 30 Issue 2

**Publisher:** ACM Press

Full text available: pdf(414.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We address the problem of efficiently constructing materialized XML views of relational databases. In our setting, the XML view is specified by a query in the declarative query language of a middle-ware system, called SilkRoute. The middle-ware system evaluates a query by sending one or more SQL queries to the target relational database, integrating the resulting tuple streams, and adding the XML tags. We focus on how to best choose the SQL queries, without having control over the target RDBM ...

12 Enterprise data management in research organizations: *data the way you want it*



M. Brian Blake

October 2003

**Proceedings of the 2003 conference on Diversity in computing**

**Publisher:** ACM Press

Full text available: pdf(321.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Raw data and processed information are essential to organizations that perform operational analysis and build simulation systems. In such domains, the dissemination and management of this information is a daunting task. Not only must this data support a heterogeneous array of researchers, but also the requirements on this data are constantly changing. To achieve maximum utility, data of this sort must be made available in distributed locations and offered in various custom formats. Such approach ...

**Keywords:** XML, XSLT, semi-structured data, web-accessible databases


13 UnQL: a query language and algebra for semistructured data based on structural recursion

Peter Buneman, Mary Fernandez, Dan Suciu

March 2000

**The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [pdf\(414.32 KB\)](#)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper presents structural recursion as the basis of the syntax and semantics of query languages for semistructured data and XML. We describe a simple and powerful query language based on pattern matching and show that it can be expressed using structural recursion, which is introduced as a top-down, recursive function, similar to the way XSL is defined on XML trees. On cyclic data, structural recursion can be defined in two equivalent ways: as a recursive function which evaluates the data t ...

**Keywords:** Optimization, Query language, Semistructured data, Structural recursion, XML, XSL

#### 14 [XML query processing I: Composing XSL transformations with XML publishing views](#)



Chengkai Li, Philip Bohannon, P. P. S. Narayan

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available:  [pdf\(225.65 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While the XML Stylesheet Language for Transformations (XSLT) was not designed as a query language, it is well-suited for many query-like operations on XML documents including selecting and restructuring data. Further, it actively fulfills the role of an XML query language in modern applications and is widely supported by application platform software. However, the use of database techniques to optimize and execute XSLT has only recently received atten ...

#### 15 [Highly personalized information delivery to mobile clients](#)

Bahattin Ozen, Ozgur Kilic, Mehmet Altinel, Asuman Dogac  
November 2004 **Wireless Networks**, Volume 10 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(924.80 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The inherent limitations of mobile devices necessitate information to be delivered to mobile clients to be highly personalized according to their profiles. This information may be coming from a variety of resources like Web servers, company intranets, email servers. A critical issue for such systems is scalability, that is, the performance of the system should be in acceptable limits when the number of users increases dramatically. Another important issue is being able to express highly perso ...

**Keywords:** information delivery to mobile devices, personalization, query indexing, querying XML documents, user profiles


#### 16 [Computing graphical queries over XML data](#)



Sara Comai, Ernesto Damiani, Piero Fraternali

October 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(707.80 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The rapid evolution of XML from a mere data exchange format to a universal syntax for encoding domain-specific information raises the need for new query languages specifically conceived to address the characteristics of XML. Such languages should be able not only to extract information from XML documents, but also to apply powerful transformation and restructuring operators, based on a well-defined semantics. Moreover, XML queries should be natural to write and understand, as nontechnical person ...

**Keywords:** Document restructuring, graphical query languages, semantics

17 XAS: a system for accessing componentized, virtual XML documents

Ming-Ling Lo, Shyh-Kwei Chen, Sriram Padmanabhan, Jen-Yao Chung

July 2001 **Proceedings of the 23rd International Conference on Software Engineering**

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(143.39](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#),

[KB](#)  [Publisher](#)  
[Site](#)

[index terms](#)

*XML is emerging as an important format for describing the schema of documents and data to facilitate integration of applications in a variety of industry domains. An important issue that naturally arises is the requirement to generate, store and access XML documents.*


*It is important to reuse existing data management systems and repositories for this purpose. In this paper, we describe the XML Access Server (XAS), a general purpose XML based storage and retrieval system which ...*

18 XML and architecture: XCube: XML for data warehouses

Wolfgang Hümmer, Andreas Bauer, Gunnar Harde

November 2003 **Proceedings of the 6th ACM international workshop on Data warehousing and OLAP**

**Publisher:** ACM Press

Full text available:  [pdf\(272.32](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#),

[KB](#)

[review](#)

Data warehouse systems are nowadays a well known and widely spread approach for supporting management decisions. In several companies or even across companies the idea of integrating several data warehouses into a virtual or federated data warehouse is of growing interest. But the technical and semantic problems are very demanding. An essential part for solving this problem is a standardized, vendor independent format for describing multidimensional data. This paper introduces XCube, a family of ...

**Keywords:** based on XML documents, between data warehouses, exchange of data cubes

19 Tutorials: tutorial 1: XML and relational database management systems: the inside story

Michael Rys, Don Chamberlin, Daniela Florescu

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data**

**Publisher:** ACM Press

Full text available:  [pdf\(341.22](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

[KB](#)


As XML has evolved from a document markup language to a widely-used format for exchange of structured and semistructured data, managing large amounts of XML data has become increasingly important. A number of companies, including both established database vendors and startups, have recently announced new XML database systems or new XML functionality integrated into existing database systems. This tutorial will provide an insight into how XML functionality fits into relational database management ...

20 Distributed query evaluation on semistructured data

Dan Suciu

March 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 1

**Publisher:** ACM Press

Full text available:  [pdf\(689.88 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

*Semistructured data* is modeled as a rooted, labeled graph. The simplest kinds of queries on such data are those which traverse paths described by regular path expressions. More complex queries combine several regular path expressions, with complex data restructuring, and with sub-queries. This article addresses the problem of efficient query evaluation on distributed, semistructured databases. In our setting, the nodes of the database are distributed over a fixed number of sites, and the ...





**Keywords:** Distributed evaluation, nested queries, parallel complexity, regular expressions, semistructured data

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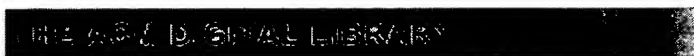
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**1** [What makes the differences: benchmarking XML database implementations](#)

Hongjun Lu, Jeffrey Xu Yu, Guoren Wang, Shihui Zheng, Haifeng Jiang, Ge Yu, Aoying Zhou

February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available: [pdf\(589.14 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML is emerging as a major standard for representing data on the World Wide Web. Recently, many XML storage models have been proposed to manage XML data. In order to assess an XML database's abilities to deal with XML queries, several benchmarks have also been proposed, including XMark and XMach. However, no reported studies using those benchmarks were found that can provide users with insights on the impacts of a variety of storage models on XML query performance. In this article, we report our ...

**Keywords:** XML query processing, XML storage model, benchmark
**2** [Posters: XML data mediator integrated solution for xml roundtrip from xml to relational](#)

Nianjun Zhou, George Mihaila, Dikran Meliksetian

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

Publisher: ACM Press

Full text available: [pdf\(140.51 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a system for efficient data transformations between XML and relational databases, called XML Data Mediator (XDM). XDM enables the transformation by externalizing the specification of the mapping in a script and using an efficient run-time engine that automates the conversion task. The runtime engine is independent from the mapping script. A parser converts a mapping script into an internal conversion object. For the mapping from relational to XML, we use a tagging tree as a c ...

**Keywords:** RDBMS, XML, XSL, relational database, shredding
**3** [Demo session: XML data management: WmXML: a system for watermarking XML data](#)

Xuan Zhou, HweeHwa Pang, Kian-Lee Tan, Dhruv Mangla

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**


**Publisher:** VLDB Endowment

Full text available:  pdf(164.07 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


As increasing amount of data is published in the form of XML, copyright protection of XML data is becoming an important requirement for many applications. While digital watermarking is a widely used measure to protect digital data from copyright offences, the complex and flexible construction of XML data poses a number of challenges to digital watermarking, such as re-organization and alteration attacks. To overcome these challenges, the watermarking scheme has to be based on the usability of da ...

4 XML processing: TREX: DTD-conforming XML to XML transformations

 Aoying Zhou, Qing Wang, Zhimao Guo, Xueqing Gong, Shihui Zheng, Hongwei Wu, Jianchang Xiao, Kun Yue, Wenfei Fan

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

**Publisher:** ACM Press

Full text available:  pdf(88.41 KB)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 Future of simulation: Virtual machines for message based, real-time and interactive simulation

Hansoo Kim, Chen Zhou, Hua X. Du

December 2000 **Proceedings of the 32nd conference on Winter simulation**


**Publisher:** Society for Computer Simulation International

Full text available:  pdf(505.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


An advanced processing machine interacts with the material handling system, personnel and cell or shop floor controller in real-time via messaging and control. However, current simulation models are normally built with simulation software tools that are not designed to explicitly model machine interactions. In this research, we develop a modular design of simulation tools. One of the fundamental building blocks is the virtual machine module that simulates machine behavior in terms of state change ...

6 Mobility: Flexible on-device service object replication with replets

 Dong Zhou, Nayeem Islam, Ali Ismael

May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**

**Publisher:** ACM Press

Full text available:  pdf(887.11 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An increasingly large amount of Web applications employ service objects such as Servlets to generate dynamic and personalized content. Existing caching infrastructures are not well suited for caching such content in mobile environments because of disconnection and weak connection. One possible approach to this problem is to replicate Web-related application logic to client devices. The challenges to this approach are to deal with client devices that exhibit huge divergence in resource ...

**Keywords:** capability, preference, reconfiguration, replication, service, synchronization

7 A web-trained extraction summarization system

Liang Zhou, Eduard Hovy

May 2003 **Proceedings of the 2003 Conference of the North American Chapter of the Association for Computational Linguistics on Human Language Technology - Volume 1 NAACL '03**

Publisher: Association for Computational Linguistics

Full text available:  [pdf\(286.53 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)


A serious bottleneck in the development of trainable text summarization systems is the shortage of training data. Constructing such data is a very tedious task, especially because there are in general many different correct ways to summarize a text. Fortunately we can utilize the Internet as a source of suitable training data. In this paper, we present a summarization system that uses the web as the source of training data. The procedure involves structuring the articles downloaded from various ...

8 G2ST: a novel method to transform GML to SVG

Zhimao Guo, Shuigeng Zhou, Zhengchuan Xu, Aoying Zhou

November 2003 **Proceedings of the 11th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available:  [pdf\(204.46 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Geography Markup Language (GML) has been adopted as *de facto* standard for geo-referenced information storing and exchanging, while Scalable Vector Graphics (SVG), also a W3C-recommended XML standard, is appearing as an ideal format for rendering maps. Usually, Extensible Stylesheet Language Transformations (XSLT) is used to transform GML documents to SVG documents. Considering the complexity and variety of GML documents, however, designing XSLT rules is not a easy task; even worse, such a ...

**Keywords:** GML, SVG, transforming language9 Transforming the content management process at IBM.com

Louis Weitzman, Sara Elo Dean, Dikran Meliksetian, Kapil Gupta, Nianjun Zhou, Jessica Wu

April 2002 **Case studies of the CHI2002|AIGA Experience Design FORUM**

Publisher: ACM Press

Full text available:  [pdf\(1.45 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This case study explores the evolution of the Franklin Content Management System, developed by IBM's Internet Technology Group. Franklin began as a technology-driven process to provide a web content management solution with the following goals: content reusability, simplified management of content and design that enforces integrity and consistency, the customization of content to individual users, and the delivery of content to a variety of display devices. These goals were met in part by the dec ...

**Keywords:** DTD, XML, XSL, content management, content reuse, customization, information architecture, object dependency, software development, web publishing10 Objets graphiques transactionnels: une méthode ouverte pour la création d'applications interactives distribuées synchrones

Yunpeng Zhao, Thomas Baudel, Jie Zhou

November 2002 **Proceedings of the 14th French-speaking conference on Human-computer interaction (Conférence Francophone sur l'Interaction Homme-Machine) IHM '02**

Publisher: ACM Press

Full text available:  pdf(331.10 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce Transactional Graphic Objects, an open approach to share graphic objects in direct-manipulation distant CSCW (Computer Supported Cooperative Work) applications. We also present the client-server architecture for such applications. The graphic objects hosted by the server are accessed by clients by means of transactions in an XML based language, the Graphic Object Access Language (GOAL). GOAL is defined as an open communication protocol between the client and the server. Conforming t ...

**Keywords:** CSCW, XML, direct manipulation, distributed graphics, groupware, transactional graphic objects


11 [Software engineering and middleware: E-R modeler: a database modeling toolkit for Eclipse](#) 



Song Zhou, Chuanxi Xu, Hui Wu, Jing Zhang, Yuehua Lin, Juanqin Wang, Jeff Gray, Barrett Bryant

April 2004 **Proceedings of the 42nd annual Southeast regional conference**

**Publisher:** ACM Press

Full text available:  pdf(448.28 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Eclipse is a Java integrated development environment (IDE) and tool integration platform that offers numerous extension points for customization through a plug-in architecture. This paper describes the design of an Eclipse plug-in called E-R Modeler. As a database design toolkit, the E-R Modeler provides an E-R (Entity-Relationship) diagram development environment that supports XML and DDL (Database Definition Language) generation tools. It also provides database connection and schema creation c ...

**Keywords:** E-R diagram, Plug-In, data modeling, design patterns, eclipse


12 [Function-based object model towards website adaptation](#) 



Jinlin Chen, Baoyao Zhou, Jin Shi, Hongjiang Zhang, Qiu Fengwu

April 2001 **Proceedings of the 10th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  pdf(615.57 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** HTML/WML conversion, content adaptation, content function, website understanding

13 [VXMLR: A Visual XML-Relational Database System](#) 

Aoying Zhou, Hongjun Lu, Shihui Zheng, Yuqi Liang, Long Zhang, Wenyun Ji, Zengping Tian

September 2001 **Proceedings of the 27th International Conference on Very Large Data Bases VLDB '01**

**Publisher:** Morgan Kaufmann Publishers Inc.

Additional Information: [full citation](#), [citations](#)


14 [WME: towards a web for mathematics education](#) 



Paul S. Wang, Norbert Kajler, Yi Zhou, Xiao Zou

August 2003 **Proceedings of the 2003 international symposium on Symbolic and algebraic computation**

**Publisher:** ACM Press

Full text available:  pdf(133.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Reported is an approach for *Web-based Mathematics Education* (WME). The WME framework is a distributed system that aims to create a *Web for mathematics education*. Components of the WME framework include the *Mathematics Education Markup Language* (MeML) for page markup, regular Web servers to deliver pages, WME Page Processors to enable common Web browsers to receive MeML pages, and a variety of WME services (mathematical and educational) to supply power and interactivity to Me ...

**Keywords:** MeML, WME, education, markup, mathematics, mathematics education markup protocol, mathematics education service language, web, web-based mathematics education


# 15 [Semantic search: An enhanced model for searching in semantic portals](#)



Lei Zhang, Yong Yu, Jian Zhou, ChenXi Lin, Yin Yang

May 2005 **Proceedings of the 14th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  pdf(230.36 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Semantic Portal is the next generation of web portals that are powered by Semantic Web technologies for improved information sharing and exchange for a community of users. Current methods of searching in Semantic Portals are limited to keyword-based search using information retrieval (IR) techniques, ontology-based formal query and reasoning, or a simple combination of the two. In this paper, we propose an enhanced model that tightly integrates IR with formal query and reasoning to fully utilize ...

**Keywords:** fuzzy description logic, fuzzy reasoning, information retrieval, semantic portal, semantic search


# 16 [Different cultures meet \(panel session\): lessons learned in global digital library development](#)



Ching Chen, Wen Gao, Hsueh-hua Chen, Li-Zhu Zhou, Von-Wun Soo

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

**Publisher:** ACM Press

Full text available:  pdf(141.46 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This panel is organized to share the experience gained and lessons learned in developing cutting-edge technology applications and digital libraries when different cultures meet together. "Culture" is interpreted in different ways and different context. This includes the interdisciplinary collaboration among professionals from different fields with their own cultures -- such as library/information science, computer science, humanities, social sciences, science and technology, et ...


# 17 [Poster 2: applications track: Automatic generating detail-on-demand hypervideo using MPEG-7 and SMIL](#)



Tina T. Zhou, Tom Gedeon, Jess S. Jin

November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**

**Publisher:** ACM Press

Full text available:  pdf(139.97 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Detail-on-demand hypervideo will provide a powerful mechanism to allow viewers to see additional information of video segments through hyperlinks. A large number of tools are devoted to the identification of selectable video objects and the synchronization mechanisms for linking additional information to selectable video objects. We focus here on the automatic generation of additional information and the

integration of the additional information to its corresponding selectable video object.  
We d ...


**Keywords:** MPEG-7, SMIL, detail-on-demand hypervideo authoring

18 Internet and WWW-based systems: A web-enabled video indexing system 

 Jian Zhou, Xiao-Ping Zhang

October 2004 **Proceedings of the 6th ACM SIGMM international workshop on  
Multimedia information retrieval**

**Publisher:** ACM Press

Full text available:  pdf(399.60  
KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Video parsing and indexing is an important early stage of content-based video analysis. In this paper, we present a new web-enabled video indexing system that integrates Synchronized Multimedia Integration Language (SMIL) standard. New algorithms are proposed for video temporal segmentation. Sharp transition detection is achieved by an enhanced histogram-based method that is robust to illumination changes. For gradual transition detection, new features are introduced for dissolve detection. T ...

**Keywords:** SMIL, shot boundary detection, video indexing, video temporal segmentation

19 Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5 

Xiaofang Zhou, Ronald Pose

January 2002 proceeding

**Publisher:** Australian Computer Society, Inc.

Additional Information: [full citation](#), [abstract](#)


The papers in this volume were presented at the 13th Australasian Database Conference (ADC 2002), which was hosted by Monash University in Melbourne from 28 January to 2 February 2002, as a part of the 2002 Australasian Computer Science Week (ACSW), which also included a number of other conferences. The annual ADC series is a key forum for Australasian and international researchers in the area of databases to exchange new ideas and the development of new applications. This year ADC continues its ...

20 Access management for distributed systems: Adaptive trust negotiation and access control 

 Tatyana Ryutov, Li Zhou, Clifford Neuman, Travis Leithhead, Kent E. Seamons

June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies**

**Publisher:** ACM Press

Full text available:  pdf(324.12  
KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Electronic transactions regularly occur between business partners in separate security domains. Trust negotiation is an approach that provides an open authentication and access-control environment for such transactions, but it is vulnerable to malicious attacks leading to denial of service or leakage of sensitive information. This paper introduces an Adaptive Trust Negotiation and Access Control (ATNAC) framework to solve these problems. The framework combines two existing systems, TrustBuilder ...

**Keywords:** access control, adaptive systems, denial of service, trust negotiation

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